



# L&A Coatings

MANUFACTURERS OF  
INDUSTRIAL COATINGS

TECHNICAL  
DATA SHEET

## 700 – SERIES HIGH PERFORMANCE POLYURETHANE

**DESCRIPTION:** 700 – Series Hybrid Acrylic Polyester Polyurethane finish coats are LOW-VOC two component corrosion and early chemical resistant coatings that are designed for long term protection and aesthetic enhancement of structures and equipment in industrial and marine service conditions. 700 – Series offers outstanding long term weather resistance with excellent color and gloss retention.

This coating is most effective when applied over 63 – Series Epoxy Primer/Finish or 68-90 Zinc Rich Epoxy-Polyamide Primer. However, it may also be applied directly to the clean metal surface (DTM) or over other suitable primers.

### TYPICAL USES INCLUDE

Offshore Equipment  
Petro Chemical Industries

Marine Vessels  
Power Plants

Storage Tanks and Piping  
Shipbuilding

### TYPICAL PHYSICAL PROPERTIES:

<b>COLOR:</b>	Standard Colors
<b>COMPONENTS:</b>	Two
<b>GLOSS:</b>	High Gloss
<b>MIXING RATIO (BY VOL.):</b>	4:1
• <b>MIX WITH 700-100 CATALYST</b>	
<b>WT. /GALLON:</b>	Varies with color
<b>POT LIFE:</b>	5 hours @ 77F
<b>VISCOSITY AT 77° F:</b>	90 KU
<b>SHELF LIFE:</b>	2 Years
<b>SOLIDS BY WEIGHT:</b>	77%
<b>SOLIDS BY VOLUME:</b>	70%
<b>TEMP. RESISTANCE:</b>	250°F
<b>CHEM. RESISTANCE:</b>	Aggressive Chemical Exposure
<b>THEORETICAL COVERAGE:</b>	1120 ft <sup>2</sup> /gal @ 1 mil dft
<b>FLASH POINT:</b>	40° F, TCC

**V.O.C.:** 1.5 lbs/gal.

**RECOMMENDED D.F.T.:** 2.0 – 5.0 mils/coat

**DRY TIME:** @ 77° F, 55% R.H.

To Touch: 2 – 4 Hours

To Handle: 6 - 8 Hours

To Recoat: 10 -12 Hours

**THINNING:** Brush: T-46 / T-701 (5% - 10%)  
Spray: T-46 / T-701 (5% - 20%)

#### APPLICATION METHODS:

Brush, Roll, Spray

#### FILM THICKNESS:

Wet: 5.0 – 8.0 mils per coat

Dry: 3.0 – 5.0 mils per coat

#### APPLICATION EQUIPMENT:

CONVENTIONAL: DeVilbiss 510 Gun

E Tip + Needle, 704 Air Cap

AIRLESS: Graco 30:1 Pump,

.013 - .021 Tip or equivalent

#### CLEANING OF EQUIPMENT:

T-701 or T-46

**PACKAGING:**

**Base:** Ones – 80% Fill (0.80 gal)  
Fives – 80% Fill (4.0 gal)

**Activator:** Quarts – 80% Fill (0.20 gal)  
Ones – 100% Fill (1.0 gal)

**APPLICATION CONDITIONS:**

Surface should be dry, above 40° F and at least 5° F above the dew point. Humidity should be less than 85%.

**SURFACE PREPARATION:**

Remove all grease, oil, dirt, dust or other contaminants.

**NORMAL SERVICE:** SSPC – SP6 Commercial Blast Cleaning or SSPC – SP10 Near White Metal Blast Cleaning. Prime with 63 – Series Epoxy Primer/Finish, 68-90 Zinc Rich Epoxy-Polyamide Primer, or apply directly to the clean metal surface (DTM).

**CORROSIVE SERVICE:** SSPC – SP6 Commercial Blast Cleaning or SSPC – SP10 Near White Metal Blast Cleaning. Prime with 63 – Series Epoxy Primer/Finish, or 68-90 Zinc Rich Epoxy-Polyamide Primer. A recommended primer must be used for corrosive service.

**PREVIOUSLY PAINTED SURFACES:**

Remove all grease, oil, dirt, dust or other contaminants. Surface must be clean and dry. Remove all rust, rust scale, chalk, and loose peeling paint by SSPC – SP2 and SP3 Hand and Power Tool Cleaning, or SSPC – SP7 Brush-Off Blast Cleaning. Spot prime all bare areas and fully prime entire area to be painted before top coating.

**RECOMMENDED PRIMER:**

Use 63 – Series Epoxy Primer/Finish, or 68-90 Zinc Rich Epoxy-Polyamide Primer. May also be applied over 29 – 80 Universal Primer or directly to the clean metal surface (DTM).

**SAFETY INFORMATION****DOT CLASSIFICATION: PAINT UN 1263**

**DANGER:** Causes eye burns and skin irritation. Vapor harmful. Dried film of this paint may be harmful if eaten or chewed. Contains organic solvent. Do not get in eyes, on skin or on clothing. Wear protective eye equipment when handling. Keep away from heat, sparks, and flame. Avoid breathing vapor or mist. Wash thoroughly after handling. Wear appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable level. Follow respirator manufacturer's directions for use. Keep container closed. Keep out of reach of children.

**FIRST AID:** IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. FOR SKIN CONTACT, FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH, AND CALL A PHYSICIAN.

**NOTICE:** Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or **fatal**.

**FOR INDUSTRIAL USE ONLY**